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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 10/019,134 | 12/20/2001 | Axel Heinrich | CL/V-31010A | 1918 |

1095 7590 11/04/2002

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EXAMINER

SAWHNEY, HARGOBIND S

| | |
|----------|--------------|
| ART UNIT | PAPER NUMBER |
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2875

DATE MAILED: 11/04/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/019,134

Applicant(s)

HEINRICH ET AL.

Examiner

Hargobind S Sawhney

Art Unit

2875

-- Th MAILING DATE of this communication appears on the cover sheet with the corresponding address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 20 December 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-16 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-4 is/are rejected.
- 7) ☒ Claim(s) 5-16 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 3.
- 4) ☐ Interview Summary (PTO-413) Paper No(s) _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Claim Objections

1. Claims 1-16 are objected to because of the following informalities:

Claim 1, line 4, "characterized by" should be revised as -- comprising--.

Claim 1, line 4, "several" should be revised as -- a plurality of--.

Claim 3, line 1, "in question" should be deleted, as it does not serve any purpose. Similar revisions are suggested in Claim 4.

Claims 2-16 are necessarily objected because of their dependency on the objected base Claim 1.

2. Claims 5-16 are objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim can not depend on other multiple dependent claims. See MPEP § 608.01(n). Accordingly, the claims 5-16 have not been further treated on the merits.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

Art Unit: 2875

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1 and 2 are rejected under 35 U.S.C. 102(b) as being anticipated by Nishiyama (Japanese Patent No. JP 59-215838).

Regarding claims 1 and 2, Nishiyama (Japanese Patent No. JP 59-215838)

discloses an illuminating device (Figure and English translated abstract) comprising:

- A ultraviolet lamp (UV) 7 (Figure and English translated abstract) surrounded by a plurality of optical fibers 6 (Figure and English translated abstract), and transmitting the light from the UV lamp to a casting mold 4 (Figure and English translated abstract); and
- The optical fibers 6 being linked to the casting 4 (Figure and English translated abstract).

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Nishiyama (Japanese Patent No. JP 59-215838) in view of Biller et al. (U.S. Patent No. 5,824,373).

Regarding claims 3 and 4, Nishiyama (Japanese Patent No. JP 59-215838) teaches the UV illuminating device comprising a UV lamp. However, Nishiyama does not teach the UV lamp being a mercury lamp. On the other hand, Biller discloses a radiation curing of powder coating with the UV radiation source (abstract, column 22, lines 17-20 and lines 29-33). Biller additionally teaches the uses of doped mercury lamps (column 22, lines 29-33). This type of mercury lamps doped with metal halide is well known in the art for photo-polymerization process.

It would have been an obvious to one having ordinary skill in the art at the time of invention to modify the UV illumination system of Nishiyama by providing a doped mercury lamp for furnishing UV radiation energy as taught by Biller for advantages and gain including enhancement of particular wavelengths of the radiation source and its long operational life.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Martin et al. (U.S. Patent No. 6,372,542), Asahi (Japanese Patent No. JP 09-326346) and Gonser (U.S. Patent No. 4,385,344) each discloses UV illumination system comprising some of the features, including UV lamp, a reflector, a filter and a plurality of fiber optics.

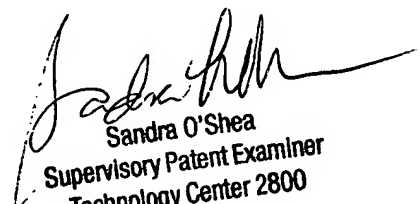
8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hargobind S, Sawhney whose telephone number is 703-306-5909. The examiner can normally be reached on 7:30 - 5:15.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sandra O'Shea can be reached on 703-305-4939. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7724 for regular communications and 703-308-8303 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-2956.

HSS

10/24/2002


Sandra O'Shea
Supervisory Patent Examiner
Technology Center 2800